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FIG. 1

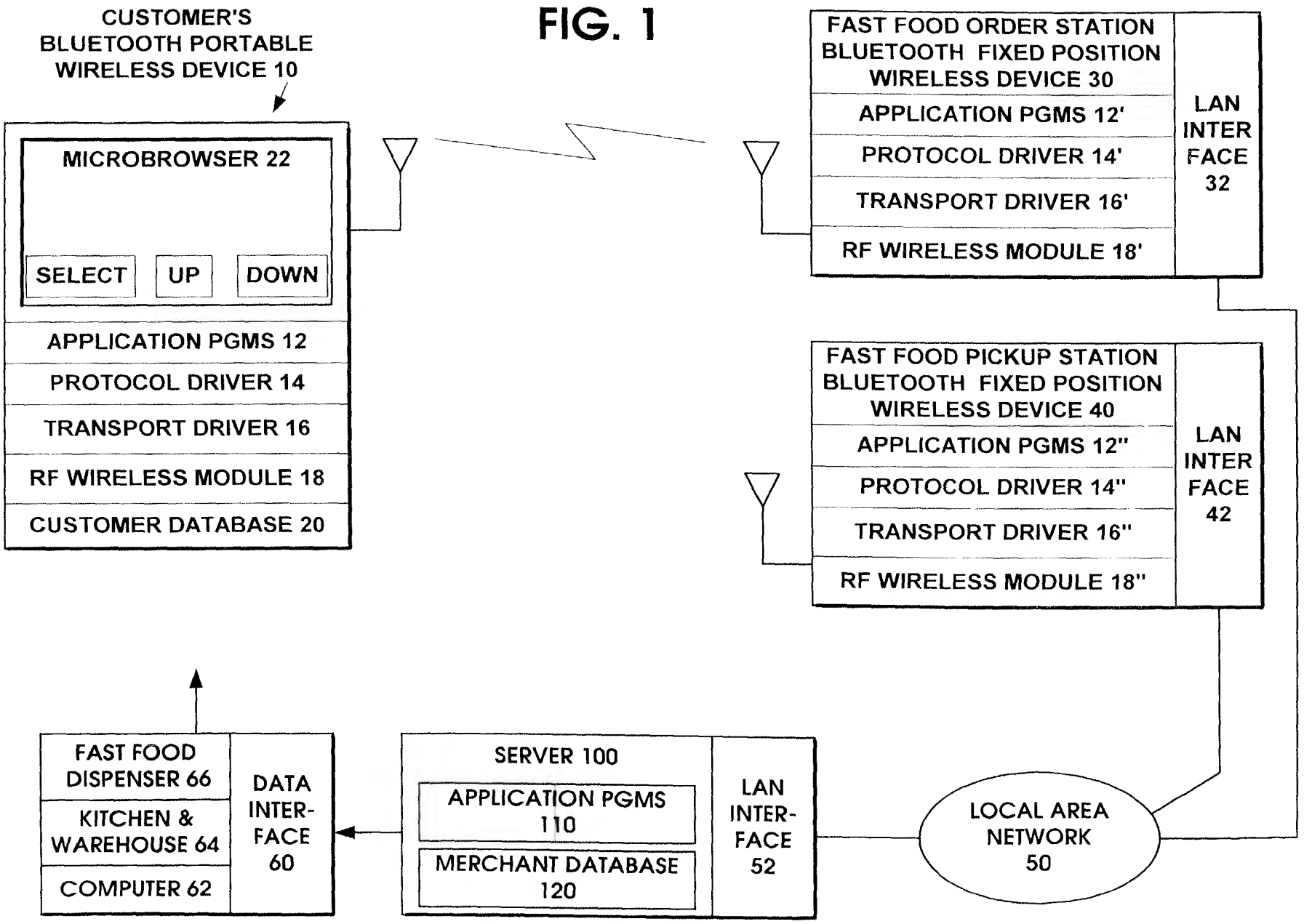

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FIG. 2A

CUSTOMER'S PRIVATE DATABASE 20

CUSTOMER'S FAST FOOD PREFERENCE DATA 230

MERCHANDISE	SPECIAL INSTRUCTIONS	PRIOR ORDERS	REMINDERS	MAC
BURGERS	NO MAYO	FRIES	EXTRA CATSUP	MAC_1
ICE TEA	EXTRA SUGAR			MAC_2

FIRST CREDIT CARD NUMBER- MAC_5 - DIGITAL SIGNATURE OF FIRST BANK

CREDIT CARD = OK
DEBIT CARD = OK MAC_7

CUSTOMER'S CAR WASH DATA 240

SERVICE	SPECIAL INSTRUCTIONS	FREQ.	LAST DATE	MAC
WASH	WHEEL WELLS	WEEKLY	00:08:15	MAC_3
DETAILING	LEATHER SEATS	ANNUALLY	99:12:20	MAC_4

SECOND CREDIT CARD NUMBER - MAC_6 - DIGITAL SIGNATURE OF SECOND BANK

CREDIT CARD = OK
DEBIT CARD = OK MAC_8

SERVER'S MERCHANT DATABASE 120

FAST FOOD MERCHANT'S DATA 210

MENU	BASE PRICE	OPTIONS-1	OPTIONS-2	OPTIONS-3
BURGERS	$2.00	CONDIMENTS	RYE/WHITE	ONIONS
DRINKS	$1.00	SWEETENER	SIZE	LEMON

INVENTORY DATA 220

ITEM	ON HAND	SUPPLIER
MEAT	500 LBS	BUTCHER
CHEESE	50 LBS	DAIRY
BUNS	100 LBS	BAKERY
TEA MIX	200 GALS	SPECIALTY

FIG. 2B

FIG. 3

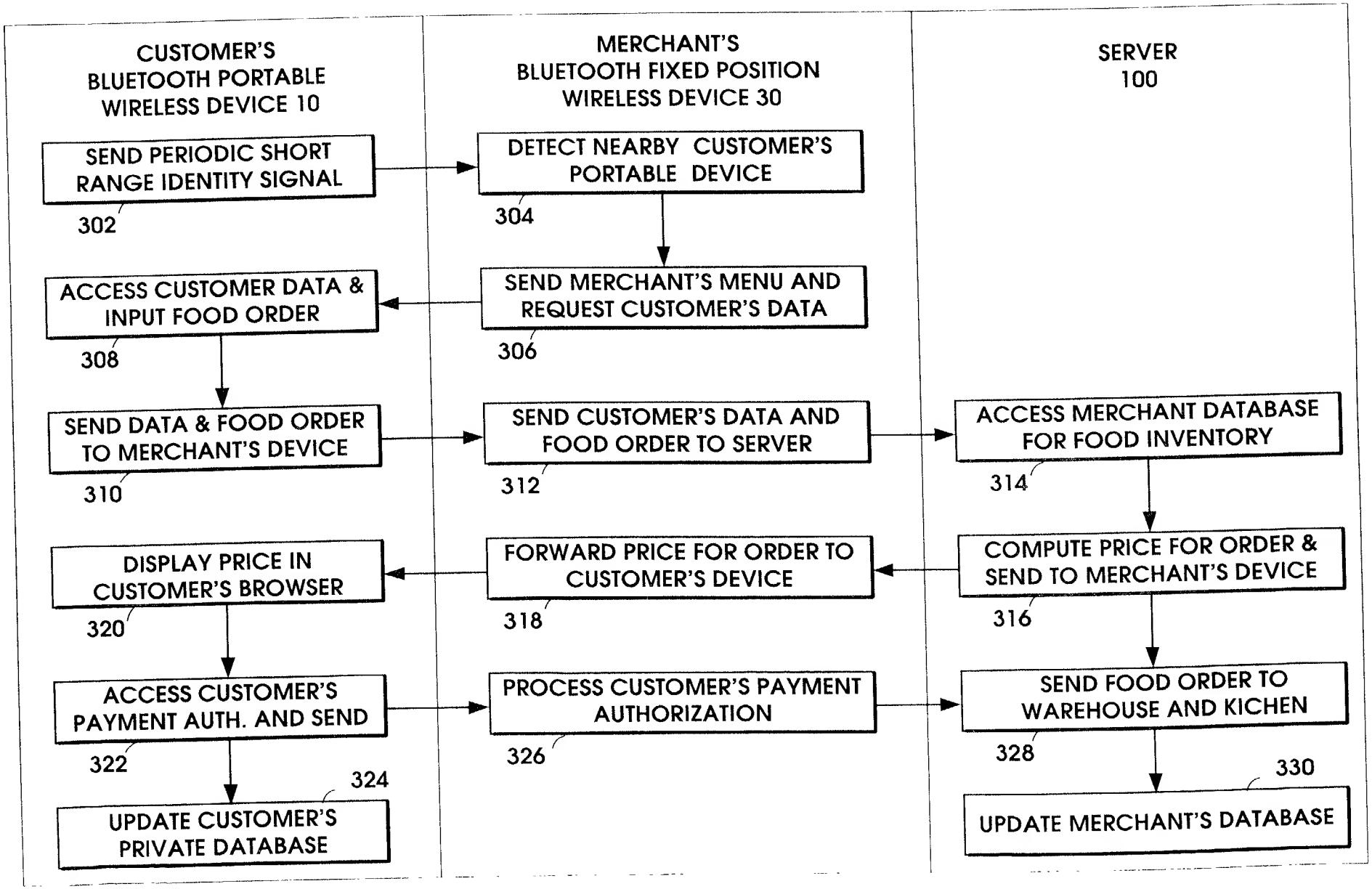

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FIG. 4

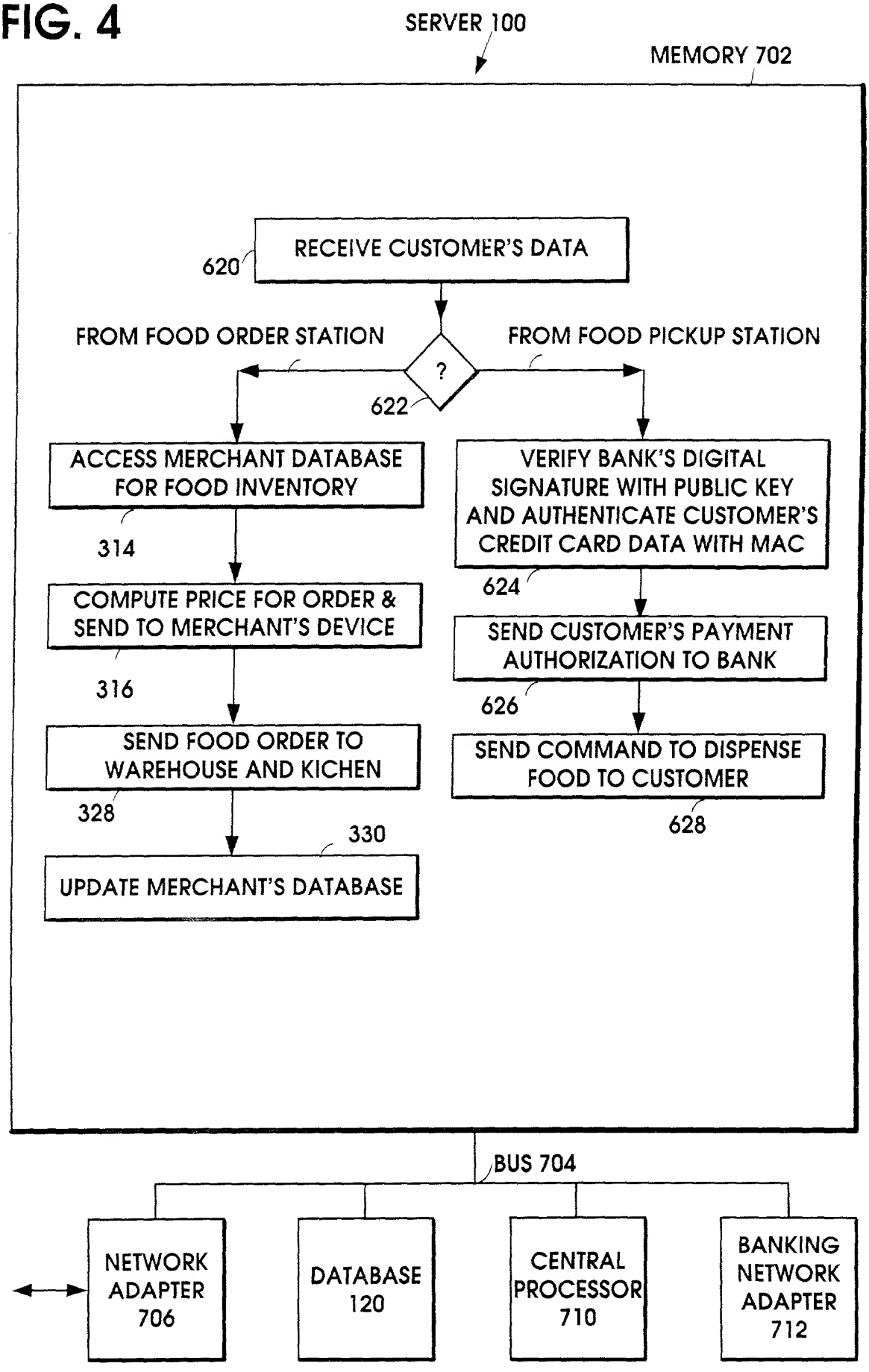
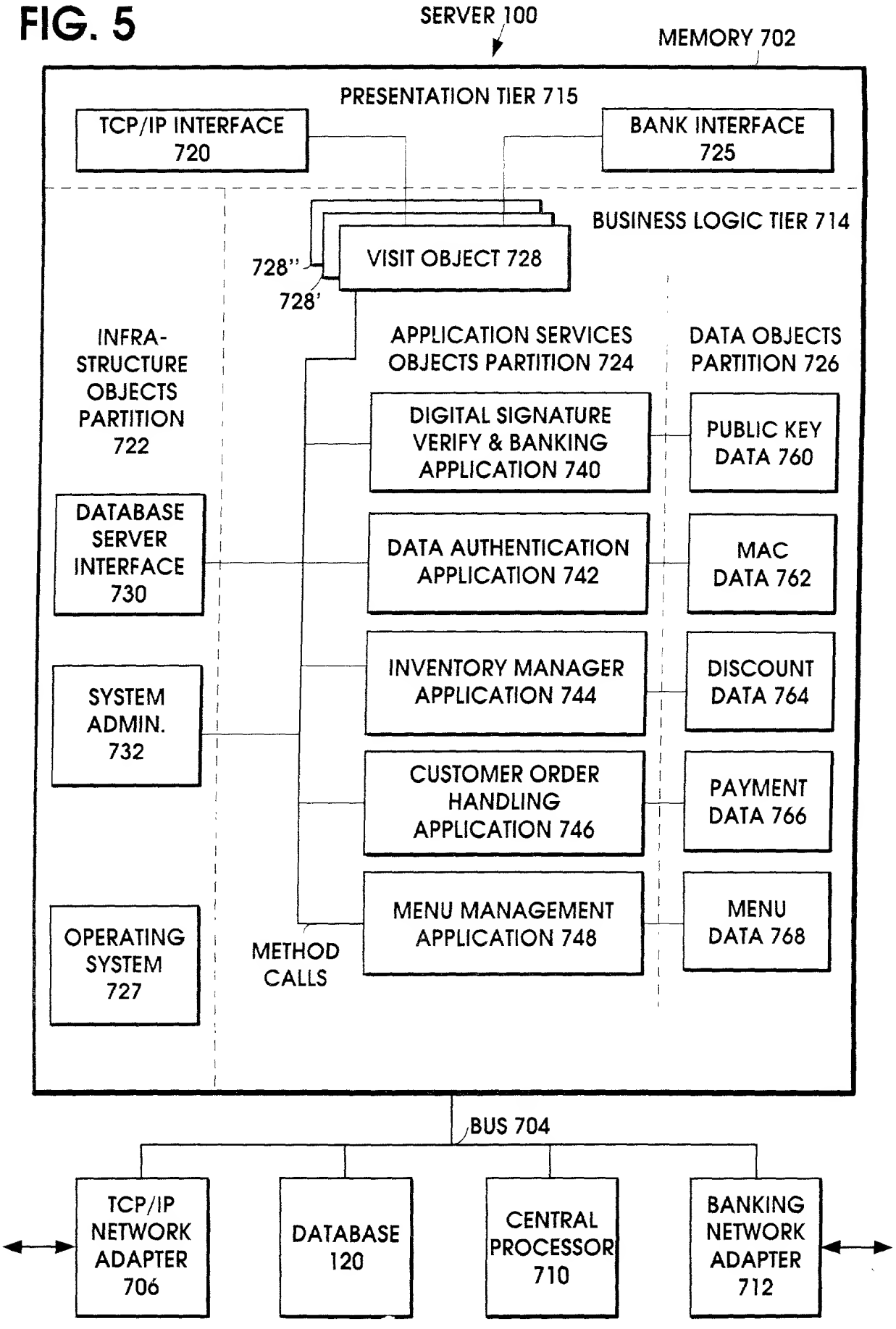

SERVER 100
MEMORY 702
620
RECEIVE CUSTOMER'S DATA
FROM FOOD ORDER STATION
?
FROM FOOD PICKUP STATION
622
ACCESS MERCHANT DATABASE FOR FOOD INVENTORY
314
COMPUTE PRICE FOR ORDER & SEND TO MERCHANT'S DEVICE
316
SEND FOOD ORDER TO WAREHOUSE AND KICHEN
328
330
UPDATE MERCHANT'S DATABASE
VERIFY BANK'S DIGITAL SIGNATURE WITH PUBLIC KEY AND AUTHENTICATE CUSTOMER'S CREDIT CARD DATA WITH MAC
624
SEND CUSTOMER'S PAYMENT AUTHORIZATION TO BANK
626
SEND COMMAND TO DISPENSE FOOD TO CUSTOMER
628
BUS 704
NETWORK ADAPTER 706
DATABASE 120
CENTRAL PROCESSOR 710
BANKING NETWORK ADAPTER 712

FIG. 5


SERVER 100
MEMORY 702
PRESENTATION TIER 715
TCP/IP INTERFACE 720
BANK INTERFACE 725
BUSINESS LOGIC TIER 714
728''
728'
VISIT OBJECT 728
INFRA-STRUCTURE OBJECTS PARTITION 722
APPLICATION SERVICES OBJECTS PARTITION 724
DATA OBJECTS PARTITION 726
DIGITAL SIGNATURE VERIFY & BANKING APPLICATION 740
PUBLIC KEY DATA 760
DATABASE SERVER INTERFACE 730
DATA AUTHENTICATION APPLICATION 742
MAC DATA 762
SYSTEM ADMIN. 732
INVENTORY MANAGER APPLICATION 744
DISCOUNT DATA 764
CUSTOMER ORDER HANDLING APPLICATION 746
PAYMENT DATA 766
OPERATING SYSTEM 727
METHOD CALLS
MENU MANAGEMENT APPLICATION 748
MENU DATA 768
BUS 704
TCP/IP NETWORK ADAPTER 706
DATABASE 120
CENTRAL PROCESSOR 710
BANKING NETWORK ADAPTER 712

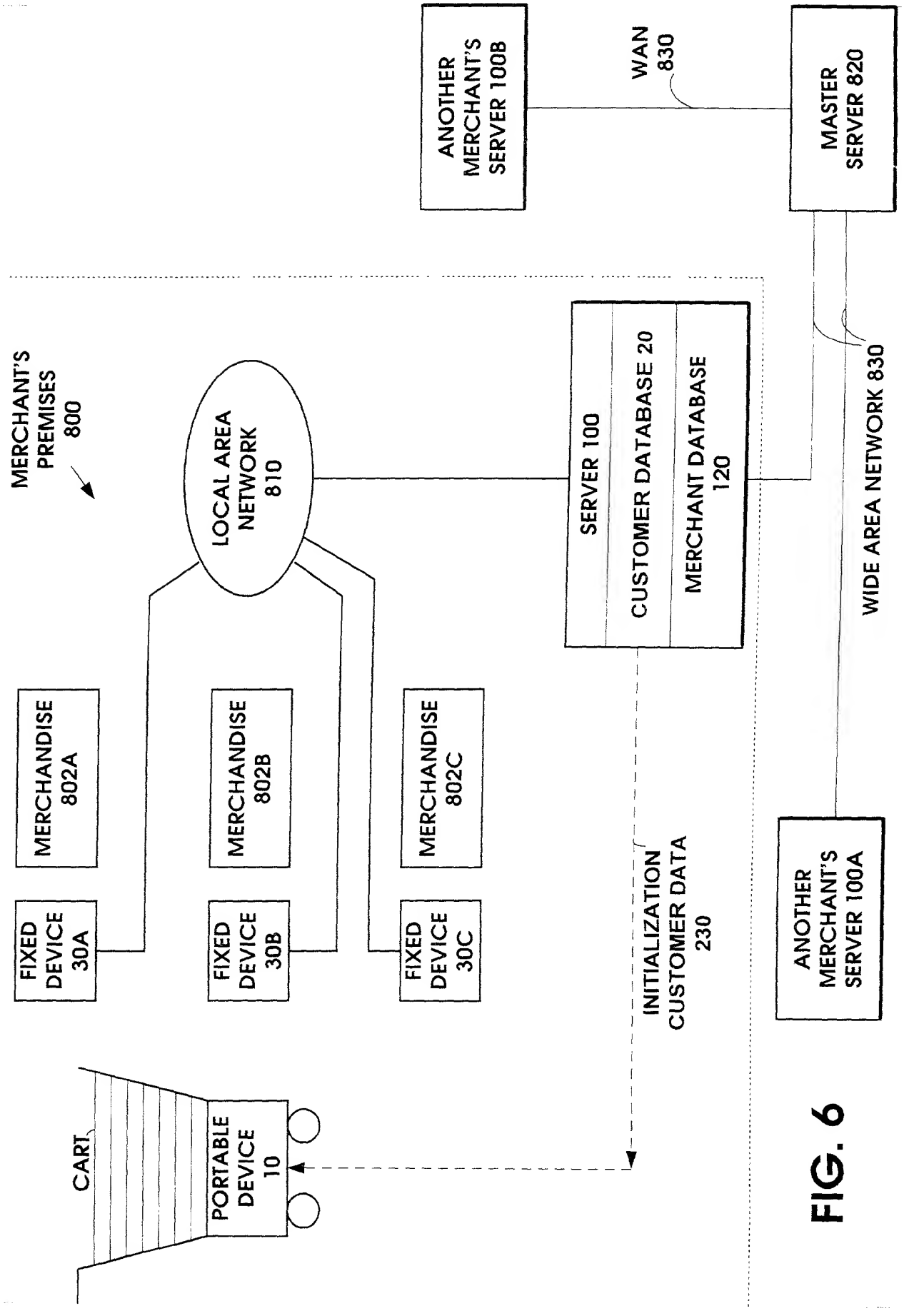

ANOTHER MERCHANT'S SERVER 100B
WAN 830
MASTER SERVER 820
MERCHANT'S PREMISES 800
LOCAL AREA NETWORK 810
SERVER 100
CUSTOMER DATABASE 20
MERCHANT DATABASE 120
WIDE AREA NETWORK 830
MERCHANDISE 802A
MERCHANDISE 802B
MERCHANDISE 802C
FIXED DEVICE 30A
FIXED DEVICE 30B
FIXED DEVICE 30C
INITIALIZATION CUSTOMER DATA 230
ANOTHER MERCHANT'S SERVER 100A
CART
PORTABLE DEVICE 10

FIG. 6

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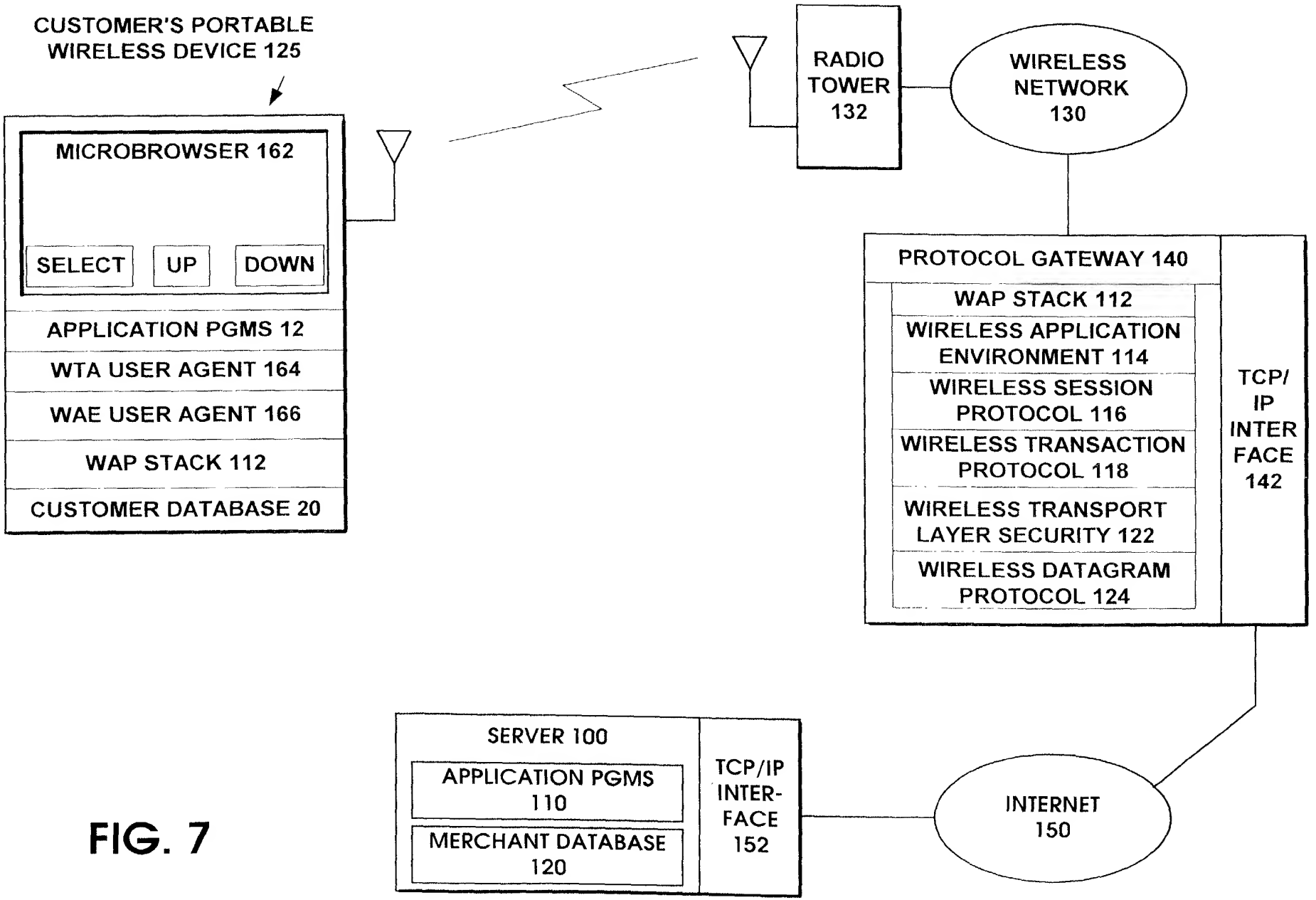

FIG. 7